NC/QC/YED/2021-22/PSL-C1 **Date: 02-07-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**265min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Page No. 1/1,

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Electrical Division
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Byatarayanapura, Bangalore-92

NC/QC/YED/2021-22/PSL-PCC1 **Date: 02-07-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**65.20**	0 -20	30- 70
10mm	**30.45**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.70**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.25**	60-95	75-100	85-100	
01.18	**72.05**	30-70	55-90	75-100	
600.mic	**46.80**	15-34	35-59	60-79	
300.mic	**23.15**	5-20	8-30	12-40	
150.mic	**7.80**	0-10	0-10	0-10	

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-CE1 **Date: 14-07-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.89 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.92 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.51 N/Sq mm**	Shall not be less than 27 N/Sqmm

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BBMP, Bangalore - 92

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-FA1 **Date: 14-07-2021**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.25**	60-95	75-100	85-100	
01.18	**72.05**	30-70	55-90	75-100	
600. mic	**47.65**	15.34	35-59	60-79	
300.mic	**23.45**	5-20	8-30	12-40	
150.mic	**7.30**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.64 %**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-CA1 **Date: 14-07-2021**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**96.25**	85-100	90 - 100
10 mm	**48.60**	0 - 20	25 - 55
4.75 mm	**3.85**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**26.42%**	Not to exceed 25 %
2.	Crushing value	**28.79%**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-S1 Date: 14-07-2021

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12 mm **TMT Steel.**
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.624**	0.567	**0.893**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**560.0**	500.0	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.50**	16.00	**20.70**	16.00
06	Ultimate Tensile Strength **N/mm^2**	**638.0**	565.0	**625.0**	565.0

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-CB1 Date: 23-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-07-21	23-07-21	07	22500	370	16.44	**16.67**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-CB2 Date: 27-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-07-21	27-07-21	07	22500	380	16.89	**16.81**
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	385	17.11	

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-CB1A Date: 13-08-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-07-21	13-08-21	28	22500	505	22.44	**22.59**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	500	22.22	

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-CB2A Date: 17-08-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-07-21	17-08-21	28	22500	515	22.89	**22.81**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	525	23.33	

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-K1 Date: 08-09-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.45	**23.22**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.37	23.30		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.38	**4.46**
2	002	4.46	
3	003	4.55	

The result of the materials tested meets the standards and hence can be used for the work.

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Yelahanka Zone
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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-K2

Date: 17-09-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.36	23.10	**23.10**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.33	22.70		
3	003	3.39	23.50		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.56	**4.69**
2	002	4.72	
3	003	4.80	

The result of the materials tested meets the standards and hence can be used for the work.

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-K3 Date: 30-09-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.37	23.30	**23.16**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.32	22.50		
3	003	3.40	23.70		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.64	**4.76**
2	002	4.78	
3	003	4.86	

The result of the materials tested meets the standards and hence can be used for the work.

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-K4 Date: 07-10-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

3. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.36	23.10	**23.03**	As per Cl. 6.2.2 of IS 456- 2000, $f_{cr}=0.7\sqrt{f_{ck}}$
2	002	3.34	22.80		
3	003	3.37	23.30		

4. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.56	**4.51**
2	002	4.32	
3	003	4.65	

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-K5 Date: 13-10-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.36	23.15	**23.16**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.34	22.90		
3	003	3.38	23.45		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.63	**4.61**
2	002	4.45	
3	003	4.76	

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-K6 Date: 25-10-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.32	22.60	**22.83**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.36	23.10		
3	003	3.34	22.80		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.72	**4.75**
2	002	4.85	
3	003	4.69	

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-K7 Date: 30-10-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.35	**23.30**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.40	23.60		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.48	**4.45**
2	002	4.31	
3	003	4.56	

AE. pro. D.U

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT ★ Bangalore ★

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YED/2021-22/PSL-K8 **Date: 08-11-2021**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Street Lights in Yelahanka Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Electric Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS).

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.33	22.75	**22.96**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.37	23.25		
3	003	3.34	22.90		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.62	**4.75**
2	002	4.78	
3	003	4.86	

A.E pro Div

Asst. Executive Engineer
Project Division
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